



01/27/97

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. PATENT 5 084 190

CASE NO.: CH-1763

PATENTEE: RICHARD EDWARD FERNANDEZ PART UNIT: 223

ISSUED: JANUARY 28, 1992

EXAMINER: ANTHONY

ASSIGNED: E.I. DU PONT DE NEMOURS AND  
COMPANYFOR: FIRE EXTINGUISHING COMPOSITION  
AND PROCESS

DATE: December 20, 1996

**REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.322**Hon. Asst. Commissioner of Patents  
Washington, DC 20231

Sir:

Attention is respectfully directed to the following discrepancies between the application on record in the U.S. Patent and Trademark Office and the documentary Letters Patent, above noted, as printed and issued by the Office:

**ABSTRACT**

Line 9 in the Abstract of the printed patent: "CF<sub>3</sub>-CR<sub>2</sub>-CH<sub>2</sub>Cl" should read "CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>Cl"

Lines 9 and 10 in the Abstract of the printed patent: "CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>, CHClF-CR<sub>2</sub>-CF<sub>3</sub>" should read "CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>"

**BACKGROUND OF THE INVENTION AND PRIOR ART**

Column 1, line 48 in the printed patent: "bromofluoromethane" should read "bromotrifluoromethane"

Column 2, line 5 in the printed patent: "(CF<sub>3</sub>-CF<sub>2</sub>C<sub>1</sub>)" should read "(CF<sub>3</sub>-CF<sub>2</sub>Cl)"  
(1 (number) changed to l (letter))

**SUMMARY OF INVENTION**

Column 2, lines 61 and 62 in the printed patent: "CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>-CH<sub>2</sub>CH<sub>2</sub>F and CF<sub>2</sub>H-CF<sub>2</sub>-CF<sub>2</sub>H" should read "CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F and CF<sub>2</sub>H-CF<sub>2</sub>-CF<sub>2</sub>H"

Column 2, line 64 in the printed patent: "CHF" should read "CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>Cl",

Column 3, line 14 in the printed patent "1,2-dichloro-1,1,2-trifluoroethan" should read "1,2-dichloro-1,1,2-trifluoroethane"

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## CLAIMS

### CLAIM 1

The formulas in Column 7 lines 33-37 (claim 1) in the printed patent contain multiple errors.

Column 7, lines 33-37 in the printed patent read: "CH<sub>3</sub>-CHF-CF<sub>3</sub>, CHF<sub>2</sub>-CH<sub>2</sub>-CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>fCF<sub>2</sub>H-CHF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>Cl, CF<sub>3</sub>-CHCl-CF<sub>3</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>Cl, and CHF<sub>2</sub>-Cl, and CHF<sub>2</sub>-CFCl-CF<sub>3</sub>."

Column 7, lines 33-37 in the printed patent should read: "CF<sub>3</sub>-CHF-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F, CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>Cl, CF<sub>3</sub>-CHCl-CF<sub>3</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>Cl, and CHF<sub>2</sub>-CFCl-CF<sub>3</sub>"

### CLAIM 3

Column 8, lines 7 and 8 in claim 3 of the printed patent: "CF<sub>3</sub>-CF<sub>2</sub>-CHF<sub>2</sub>" should read "CF<sub>3</sub>-CF<sub>2</sub>-CF<sub>2</sub>H"

Column 8, line 9 in claim 3 of the printed patent: "CF<sub>3</sub>-CF CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHCl<sub>2</sub>" should read "CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F, CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHCl<sub>2</sub>"

Column 8, line 11 in claim 3 of the printed patent: "CHF<sub>2</sub>-CHClF" should read "CHF<sub>2</sub>-CF<sub>2</sub>-CHClF"

Column 8, line 13 in claim 3 of the printed patent: "CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>" should read "CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>"

Claim 3 should therefore read: "3. A fire extinguishing composition consisting essentially of at least one fluoro-substituted propane selected from the group of

CF<sub>3</sub>-CFH-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>H, CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F, CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHCl<sub>2</sub>, CHFCl-CF<sub>2</sub>-CF<sub>2</sub>Cl, CHF<sub>2</sub>-CCl<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CHCl-CClF<sub>2</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CHClF, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>Cl, CClF<sub>2</sub>-CF<sub>2</sub>-CH<sub>2</sub>F, CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>Cl, CF<sub>3</sub>-CHCl-CF<sub>3</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>Cl, and CHF<sub>2</sub>-CFCl-CF<sub>3</sub>."

### CLAIM 7

Column 8, line 55 in claim 7 of the printed patent: "CF<sub>3</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CF<sub>2</sub>F" should read "CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F"

Applicant believes that in light of these printing errors by the Office, particularly with respect to the claims, a certificate of correction would be inappropriate in form; and, therefore, in accordance with 37 CFR 1.322(b), the Commissioner is requested to issue a corrected patent in lieu of a certificate as a more appropriate form for correction, without expense to the patentee.

If the Commissioner disagrees with patentee's request for the issuance of a corrected patent, then patentee, hereby respectfully requests that a Certificate of Correction be issued in accordance with the attached Certificate of Correction Form PTO-1050 (two copies attached

hereto). Please charge any fees that may be due to Deposit Account No. 04-1928  
(E. I. du Pont de Nemours and Company).

Respectfully submitted,



JAMES E. SHIPLEY  
ATTORNEY FOR PATENTEE  
REGISTRATION NO. 32,003  
TELEPHONE: 302-773-3006

Attachment (Form 1050)

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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 5 084 190

DATED : 01/28/92

INVENTOR(S) : RICHARD EDWARD FERNANDEZ

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

## ~~REQUEST FOR CERTIFICATE OF CORRECTION UNDER 35 U.S.C. 254 AND 37 C.F.R. 1.322~~

The following errors in printed US Pat. No. 5,084,190 (priority application US 89-436464) apparently occurred during the printing of the patent as they are not evident in the application as filed or prosecuted. Applicant believes that in light of these errors, particularly with respect to the claims, a Certificate of Correction would be an appropriate form for notifying the public of the true scope and coverage of US Pat. No. 5,084,190.

## ~~SUMMARY OF PRINTING ERRORS AND REQUESTED CORRECTIONS IN US PAT. NO.~~

~~5,084,190~~

### ABSTRACT

Line 9 in the Abstract of the printed patent: "CF<sub>3</sub>-CR<sub>2</sub>-CH<sub>2</sub>Cl" should read "CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>Cl" ✓

Lines 9 and 10 in the Abstract of the printed patent: "CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>, CHClF-CR<sub>2</sub>-CF<sub>3</sub>" should read "CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>" ✓

## ~~BACKGROUND OF THE INVENTION AND PRIOR ART~~

Column 1, line 48 in the printed patent: "bromofluoromethane" should read "bromotrifluoromethane" ✓

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## ~~SUMMARY OF INVENTION~~

Column 2, lines 61 and 62 in the printed patent: "CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>-CF<sub>3</sub>-CH<sub>2</sub>CH<sub>2</sub>F and CF<sub>2</sub>H-CF<sub>2</sub>-CF<sub>2</sub>H" should read "CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F and CF<sub>2</sub>H-CF<sub>2</sub>-CF<sub>2</sub>H" atty ✓

Column 2, line 64 in the printed patent: "CHF" should read "CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>Cl" ✓

Column 3, line 14 in the printed patent: "1,2-dichloro-1,1,2-trifluoroethane" should read "1,2-dichloro-1,1,2-trifluoroethane" ✓

MAILING ADDRESS OF SENDER:

JAMES E. SHIPLEY  
E. I. du Pont de Nemours & Company  
Legal-Patents  
Wilmington, Delaware 19898

PATENT NO. 5 084 190

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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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DATED : 01/28/92

INVENTOR(S) : RICHARD EDWARD FERNANDEZ

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## CLAIMS

### CLAIM 1

The formulas in Column 7 lines 33-37 (claim 1) in the printed patent contain multiple errors.

Column 7, lines 33-37 in the printed patent read: "CH<sub>3</sub>-CHF-CF<sub>3</sub>, CHF<sub>2</sub>-CH<sub>2</sub>-CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>-CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>Cl, CF<sub>3</sub>-CHCl-CF<sub>3</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>Cl, and CHF<sub>2</sub>-Cl, and CHF<sub>2</sub>-CFCl-CF<sub>3</sub>."

Column 7, lines 33-37 in the printed patent should read: "CF<sub>3</sub>-CHF-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>-CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>Cl, CF<sub>3</sub>-CHCl-CF<sub>3</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>Cl, and CHF<sub>2</sub>-CFCl-CF<sub>3</sub>."

### CLAIM 3

Column 8, lines 7 and 8 in claim 3 of the printed patent: "CF<sub>3</sub>-CF<sub>2</sub>-CHF<sub>2</sub>" should read "CF<sub>3</sub>-CF<sub>2</sub>-CF<sub>2</sub>H" *atty*

Column 8, line 9 in claim 3 of the printed patent: "CF<sub>3</sub>-CF<sub>2</sub>-CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHCl<sub>2</sub>" should read "CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F, CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHCl<sub>2</sub>"

Column 8, line 11 in claim 3 of the printed patent: "CHF<sub>2</sub>-CHClF" should read "CHF<sub>2</sub>-CF<sub>2</sub>-CHClF"

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Claim 3 should therefore read: "3. A fire extinguishing composition consisting essentially of at least one fluoro-substituted propane selected from the group of CF<sub>3</sub>-CFH-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>H, CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F, CF<sub>2</sub>H-CF<sub>2</sub>-CHF<sub>2</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CHCl<sub>2</sub>, CHFCl-CF<sub>2</sub>-CF<sub>2</sub>Cl, CHF<sub>2</sub>-CCl<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CHCl-CClF<sub>2</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CHClF, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>Cl, CClF<sub>2</sub>-CF<sub>2</sub>-CH<sub>2</sub>F, CF<sub>3</sub>-CH<sub>2</sub>-CClF<sub>2</sub>, CHClF-CF<sub>2</sub>-CF<sub>3</sub>, CHF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>Cl, CF<sub>3</sub>-CHCl-CF<sub>3</sub>, CF<sub>3</sub>-CHF-CF<sub>2</sub>Cl, and CHF<sub>2</sub>-CFCl-CF<sub>3</sub>."

### CLAIM 7

Column 8, line 55 in claim 7 of the printed patent: "CF<sub>3</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CF<sub>2</sub>F" should read "CF<sub>3</sub>-CH<sub>2</sub>-CF<sub>3</sub>, CF<sub>3</sub>-CF<sub>2</sub>-CH<sub>2</sub>F"

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*Note  
Corrected  
Claim 3.*